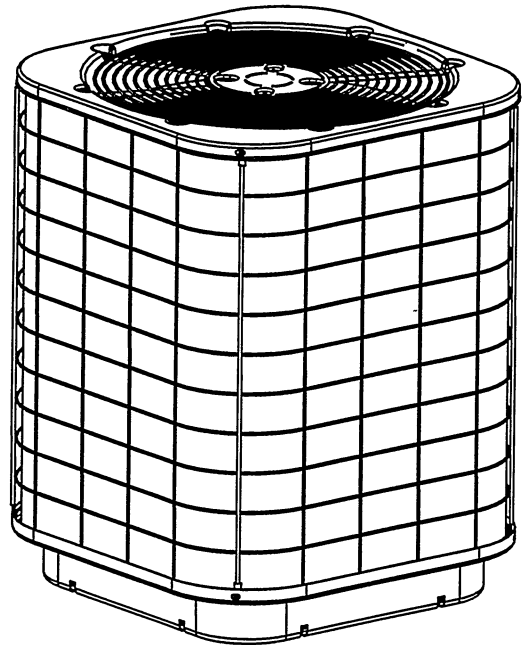


## TECHNICAL SPECIFICATIONS

### S3BC Series Extra High Efficiency Air Conditioner 12+ SEER Residential System 1-1/2 – 5 Ton Capacity

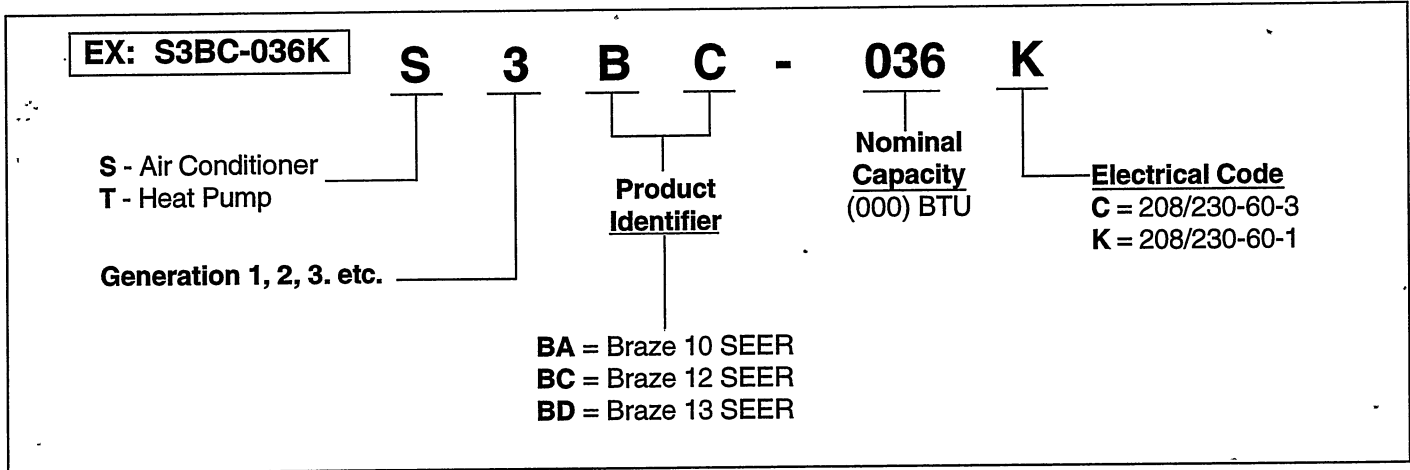
The S3BC Series of air conditioners offers exceptional performance from a small, compact package. The unit, when combined with our engineered coils or air handlers, offers a full line of quality, split system cooling equipment. Units are ideally sized for slab or rooftop mounting in single, multifamily, and light commercial applications.



### FEATURES and BENEFITS

- **Designed using galvanized steel** – with a polyester urethane coat finish. The 950 hour salt spray finish resists corrosion 50% better than comparable units.
- **Copper Tube / Aluminum Fin Coils** – Both indoor and outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Permanently Lubricated Motor** – A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Full Service Valves** – These brass valves are easily accessible and simplify servicing of the refrigeration system.
- **Plastic Coated Coil Guard/Mesh Hail Guard** – Resists corrosion and protects the unit coil from damage by balls, lawnmowers, hail, etc.
- **Removable Top Grille Assembly** – Allows ease of service from the top without disconnecting fan motor leads.
- **One Piece Top/Orifice** – Designed for maximum airflow and quiet operation.
- **2-1/2" Pedestal Base** – The sturdy base keeps the bottom of the coil out of harms way. Secondly, the base has weep holes along the edge to allow the water from rain to flow away from the unit.
- **Five Minute Restart Time Delay** – When the unit shuts down, a five minute delay keeps the unit from restarting, eliminating the highest cause for compressor failure.
- **Crankcase Heat** – Protection from liquid flood back and future compressor failures (not required on scroll compressor models).
- **Easy Compressor and Control Access** – Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.
- **6 Year Limited All Parts Warranty/10 Year Parts Coverage on Compressor** – Has proven to be a major benefit to the consumer.

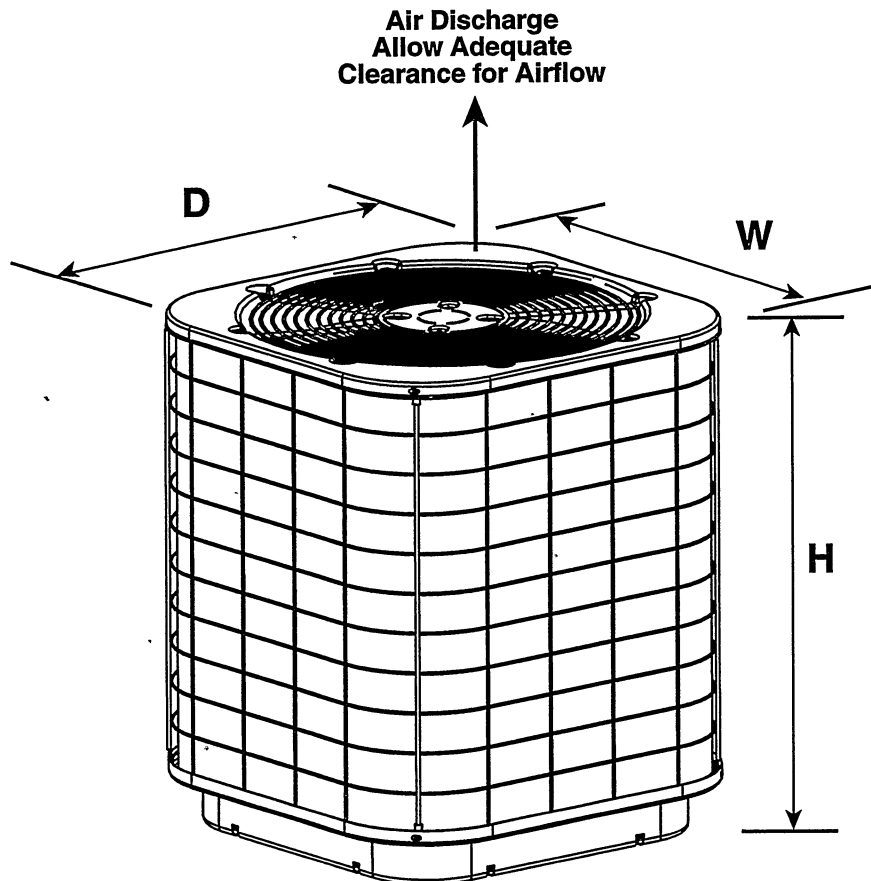
# MODEL IDENTIFICATION CODES



# DIMENSIONS

## AIR CONDITIONER OUTDOOR SECTION

S3BC	018K	024K	030K	036K	042K	048K	060K
H	26-1/2	26-1/2	30-1/2	34-1/2	38-1/2	38-1/2	42-1/2
W	30-1/2	30-1/2	30-1/2	30-1/2	30-1/2	30-1/2	30-1/2
D	30-1/2	30-1/2	30-1/2	30-1/2	30-1/2	30-1/2	30-1/2



# PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

## 12 SEER — Extra High Efficiency — Single Phase

Model No. S3BC		018K	024K	030K	036K	042K	048K	060K	
Electrical Data	Volts-Cycles-Phase (1)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	
	Total Amps	10	11.2	12.5	15.7	17.6	20.7	30.3	
	Delay Fuse Max. (2)	20	20	25	30	35	40	60	
	Min. Circuit Ampacity	12.1	13.6	15.3	19.3	21.7	25.5	37.5	
Condenser Data	Coil	Area	15.3	15.3	17.9	20.4	23.0	25.5	
		Rows-FPI	1-22	1-22	1-22	1-22	1-22	1-22	1-22
		Tube Dia.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.	3/8 O.D.
	Fan Motor	Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC
		Amps	1.4	1.4	1.4	1.4	1.5	1.5	1.5
		Watts-HP	245	245	245	245	300	300	300
	Fan Blade	Dia.-# Blades	24 in. - 2	24 in. - 2	24 in. - 2	24 in. - 2	24 in. - 3	24 in. - 3	24 in. - 3
		SCFM	3300	3300	3300	3300	4000	4000	4000
	Compressor Data*	RLA	8.6	9.8	11.1	14.3	16.1	19.2	28.8
		LRA	49	56	61	82	96	137	169
Refrigerant Suction Line-Length/O.D. (Liq. Line All Lengths - 3/8"O.D.)	0-24 ft.	5/8" (3)	3/4" (3)	3/4"	3/4"	3/4"	7/8" (4)	7/8" (4)	
	25-39 ft.	3/4" (3)	3/4"	3/4"	3/4"	7/8" (4)	7/8" (4)	1-1/8" (5)	
	40-75 ft.	3/4"	3/4"	3/4"	7/8" (4)	7/8" (4)	7/8" (4)	1-1/8" (5)	
Refrigerant Charge (Outdoor unit, Indoor Unit 15' Line Set)	R-22 Ounces	88	96	94	114	125	130	145	
Weight	Net	160	162	177	191	205	200	226	
Approximate (lbs.)	Ship	172	174	189	203	217	212	238	

\* Values shown are most severe and may vary slightly depending on the make of the compressor supplied.

(1) Operating Voltage Range: 187v min. — 253v max.

(2) HACR Type Circuit Breakers may be used.

(3) Requires 3/4" to 5/8" reducer from unit to line.

(4) Requires 7/8" to 3/4" reducer from line to unit.

(5) Requires 7/8" to 1-1/8" reducer from line to unit.

## ACCESSORIES - Condensing Unit

### Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

### Fan Delay Kit

911758 - 80-second fan delay

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit Ampacity
200	150	100	50	
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50

Wire Size based on N.E.C. for 60° type copper conductors.

# SYSTEM COOLING CAPACITIES

## 12-SEER — Extra High Efficiency — Single Phase

With This Coil					
Outdoor Unit Number S3BC-	Indoor Unit Number C3BA-	BTUH	SEER	SCFM	Required Orifice
018K	024C/U-A+TDR (1)	18,400	12.0	650	.060
024K	030C/U-(A,B)+TDR	24,000	12.0	700	.063 (2)
024K	036C/U-(A,B)+TDR (1)	24,000	12.0	700	.068 (3)
030K	036C/U-(A,B)+TDR (1)	29,000	12.0	900	.068 (3)
030K	036C/U-B+TDR (1)	29,000	12.0	900	.068 (3)
036K	042C/U-B	35,600	12.0	1200	.077 (3)
042K	048C/U-B+TDR (1)	40,500	12.0	1300	.085 (3)
042K	048C/U-C+TDR	41,000	12.0	1300	.085 (3)
048K	060C/U-C (1)	48,000	12.0	1600	.090 (3)
060K	060C/U-C+TDR (1)	56,000	12.0	1700	.099 (3)

With This Air Handler					
Outdoor Unit Number S3BC-	Indoor Unit Number B3B(M,V)-	BTUH	SEER	SCFM	Required Orifice
018K	024K-A+TDR	18,400	12.0	650	.060
024K	030K-A+TDR	23,800	12.0	700	.063 (2)
024K	030K-B+TDR	23,800	12.0	700	.063 (2)
030K	030K-A+TDR	29,000	12.0	900	.068 (2)
030K	036K-B+TDR	29,000	12.0	900	.068 (3)
036K	042K-B	35,600	12.0	1200	.077 (3)
042K	048K-B+TDR	40,500	12.0	1300	.085 (3)
048K	060K-C	48,000	12.0	1600	.090 (3)
060K	060K-C+TDR	56,000	12.0	1700	.099 (3)

(1) Available as horizontal coil.

(2) Supplied with indoor coil or air handler.

(3) Field supplied.

See current ARI Directory for certified combinations and ratings.



As an Energy Star Partner, NORDYNE has determined that our selected products meet the Energy Star guidelines for energy efficiency.



We Encourage Professionalism



Through Technician Certification by NATE



CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI

326A-1200 (Replaces 326A-0800)

St. Louis, MO **NORDYNE**

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A. (12/00)